

**CIVIL ENGINEERING MAJOR**  
**Program Tracking Sheet Based on AY 2017-18 Degree Requirements and Course Offerings**

Name:	Class Year:
Advisor:	2 <sup>nd</sup> Major:

**NOTES:** Minimum total academic credit = 15 units  
 Residency Req.: Min. of 8 units must be completed at WPI

**HUMANITIES AND ARTS REQUIREMENT (2 units)**  
 All 5 HUA courses must be completed before beginning the Inquiry Seminar or Practicum.

**Depth Component**  
 Students must complete at least three thematically-related courses prior to the culminating Inquiry Seminar or Practicum in the same thematic area. At least one of the three courses should be at the 2000-level or above.

	Course	Term	Grade	Units
1				1/3
2				1/3
3				1/3
4	HU 3900 or HU 3910			1/3

**Breadth Component**  
 Students must take at least one course outside the grouping in which they complete their depth component. To identify breadth, courses are grouped in the following manner.

- i. art/art history, drama/theatre, and music (AR, EN/TH, MU);
- ii. foreign languages (AB, CN, EN, GN, SP);
- iii. literature and writing rhetoric (EN, WR, RH);
- iv. history and international studies (HI, HU, INTL);
- v. philosophy and religion (PY, RE).

Exception: May take all six courses in a foreign language

5				1/3
<b>Humanities Elective</b>				
6				1/3

**PHYSICAL EDUCATION (4 PE classes = 1/3 unit)**

7				1/12
				1/12
				1/12
				1/12

**SOCIAL SCIENCE (2/3 unit)** ECON, ENV, GOV, PSY, SD, SOC, SS, STS and ID2050

8				1/3
9				1/3

**THE INTERACTIVE QUALIFYING PROJECT (1 unit)**

10				1/3
11				1/3
12				1/3

**FREE ELECTIVES (1 unit)**

13				1/3
14				1/3
15				1/3

**MATHEMATICS AND BASIC SCIENCE (4 units)**

**MATHEMATICS (5/3 units)** Courses with prefix: MA  
 Must include differential and integral calculus, differential equations, and probability and statistics.

16				1/3
17				1/3
18				1/3
19				1/3
20				1/3

**BASIC SCIENCE (4/3 units)**

Must include at least one course in physics (PH), two courses in chemistry (CH), and one course in an additional science area (BB or GE).

21	PH			1/3
22	CH			1/3
23	CH			1/3
24	BB or GE			1/3

**ADDITIONAL MATHEMATICS AND BASIC SCIENCE (3/3 units)**

Electives in mathematics (MA) and/or science (BB, CH, GE, PH).

25				1/3
26				1/3
27				1/3

**ENGINEERING SCIENCE AND DESIGN (6 units)**

A minimum of 4 units of work must be within the Civil Engineering area. All CE courses including the MQP, ES 2503, ES 2800, and ES 3004 are acceptable within the Civil Engineering area.

**CIVIL ENGINEERING COURSES (7/3 units)**

28				1/3
29				1/3
30				1/3
31				1/3
32				1/3
33				1/3
34				1/3

**CIVIL ENGINEERING LABORATORY EXPERIENCE (2/3 unit)**

CE 2020, CE 3024, CE 3026, CE 4054, CE 4060. Alternative options must be approved by petition (if alternatives are not in CE, 4 unit minimum in CE must be met by additional CE courses in the ES&D Electives category).

35				1/3
36				1/3

**MAJOR QUALIFYING PROJECT & CAPSTONE DESIGN EXPERIENCE**

(3/3 units MQP; 1/3 unit capstone design experience)

Typically, capstone design is fulfilled through the MQP. If it is not, a separate capstone design experience must be added in the ES&D Electives category.

37				1/3
38				1/3
39				1/3

**OUTSIDE OF CIVIL ENGINEERING (1/3 unit)**

ES&D course at the 2000-level or above that is outside CE. Acceptable courses are in other engineering departments (AE, BME, CHE, ECE, ES, FPE, ME, RBE). The following courses are excluded: ES 2501, ES 2502, ES 2503, ES 2800, and ES 3004.

40				1/3
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**ENGINEERING SCIENCE AND DESIGN ELECTIVES (5/3 unit)**

41				1/3
42				1/3
43				1/3
44				1/3
45				1/3